

Nidhin Mahesh A

Applying For Blockchain Engineer Roles.

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Industrial Experience

Lead Engineer at Jupiter Meta — Meta Jupiter Software Solutions, Hyderabad. 2024 - Present

As Lead Engineer at Jupiter Meta, co-developed the zero-knowledge rollup solution designed to enhance privacy and scalability for EVM-chain-based data monetization. Your work bridges cryptographic innovation with enterprise-scale data utility, aligning with the company's Web3 objectives in decentralized identity management and secure data ecosystems.

Lead Engineer at Rubix Layer 1 Blockchain Protocol — Rubix Networks, Hyderabad. 2021 - 2024.

As the Co-Lead of Development and Support for Rubix, pioneered the development of self custody wallets that have become integral to the Rubix ecosystem. Made substantial contributions to develop Rubix's revolutionary Proof-of-Pledge protocol, asset custody and transaction processing functions.

Designed and Developed UI/UX for consumer use application in Epistlz Company — Flutter UI toolkit, Figma.

An extended overseas contract project including design and development of end user application with AB experimentations on user experience.

Blockchain for data provenance — Hyperledger, Docker, Golang, Vue.js.

Associated with TIFAC-Core in Cyber Security (TN, India) under Dr. M Sethumadhavan to develop a data provenance system and associated tools.

Amrita WNA Blockchain Testbed Development — Hyperledger, Docker, Raspberry Pi 3B+, Golang.

Developed Hyperledger based application independent Blockchain Testbed. The testbed consists of 7 Raspberry Pi node which is the participants of the blockchain network. The testbed supports smart contracts written in Golang. For demonstration purposes, P2P Energy trading contracts were deployed and executed.

P2P VoIP based conversation app — Flutter, VoIP (WebRTC), MySQL DB.

Partnered with a startup to prototype a VoIP based proof of concept application to enable investment pitch and internal testing for the founders.

SKILLS (Generalist)

Programming Languages –

Python, Javascript, Dart &
Java, Solidity, Rust, Go.

Presentation and Teamwork

Active member of Free and Open Source Software club (FOSS) at Amrita School of Engineering, Amritapuri. 2017 - 2019. Among top 10 FOSS clubs as per number of Google Summer of Code selections

EVENTS, HACKATHONS

Represented Amrita School of Engineering, Amritapuri at **Google Developers-Developer Student Clubs Lead Summit** 3 day event at The Leela Goa,. Interacted with Googlers and Indian NGO representatives to find solutions to their scalability challenges using design thinking techniques.

Selected for **6th Undergraduate Summer School at Indian Institute of Science**, Bangalore. Conducted by Computer Science and automation (CSA) department. A week long camp giving brief on various research subjects and opportunities they create.

Trained 200+ students in 3

Grocery aggregator and payment Apps — Flutter, Node.js, PgSQL.

COVID-19 lockdown had significant impact on supermarket sellers, this project came from partnership with an energetic team at Bridcodes Global and later, to combine a known delivery management technique to easy and convenient grocery delivery experience abiding to preventive measures by govt.

Clubby - Project collaboration and social networking — Flutter

Created a project collaboration app for upcoming major short movie festival hosted by the client. I worked with a team to integrate API, Chat and Google Sign-in and tokens to the iOS and Android releases.

Mobile Payment Transaction and Analysis — PHP

Money accepted physically is stored as virtual money in user's wallet. This was used in stalls during Robotsavam-2017 fest. Data Tables API, JSON, jQuery and AJAX were used.

Research Experience

Conceptualizing Blockchain based Energy Market for Self Sustainable Community. — *published in The 2nd Workshop on Blockchain-enabled Networked Sensor Systems (BlockSys 2019) November 10th 2019, Columbia University, New York, in conjunction with ACM SenSys 2019.*

Nidhin Mahesh A, Sai Shibu N B, Balamurugan S.

In this paper, three use cases for P2P energy trading in a private blockchain network is discussed. The blockchain architecture is developed using the Hyperledger framework and the smart contracts are defined in the chaincode. The performance of the blockchain network on resource constrained IoT system based on Raspberry Pi is also evaluated.

Blockchain Framework for Social Media DRM based on Secret Sharing — *published in Springer International Conference on Information and Communication Technology for Intelligent Systems (ICTIS) 2020 - Ahmedabad.*

Kripa M, Nidhin Mahesh A, Ramaguru R, and Amritha P P.

In this paper, three use cases for P2P energy trading in a private blockchain network is discussed. The blockchain architecture is developed using the Hyperledger framework and the smart contracts are defined in the chaincode. The performance of the blockchain network on resource constrained IoT system based on Raspberry Pi is also evaluated.

Decentralized Power System and Future Mobility: The Use Cases of Community Driven Electric Vehicle Charging Infrastructure. — *published in 1st ACM International Workshop on Technology Enablers and Innovative Applications for Smart Cities (TESCA - 2019) November 10, 2019 at Columbia University, New York.*

hands-on workshops in
Flutter - a fast hybrid mobile app development framework.

Google Developer Days - 2018
Attended 2 day event at BIEC, Bangalore.

Second at **Android Duos** competition at Yagna Dhruva 2018 @LBS Engineering College, Trivandrum.

Wikimedia Hackathon by FOSS@Amrita - MediaWiki -2016 participated in hackathon conducted by FOSS club at Amrita School of Engineering, Amritapuri

SOCIAL COMMITMENTS

International Conference on Robotics & Automation for Humanitarian Applications 2016 at Amritapuri, Kerala.
Poster Presentation and Volunteering.

Student Social Responsibility Program A team of 7 members took 4 day session at **Vivekananda Tribal School, Wayanad** on Education and Social Taboo.

Sai Shibu N B, Balamurugan S, Arjun D, Nidhin Mahesh A.

This paper discusses different use cases for EV enabled blockchain based energy trading in a smart community. This paper also envisions the use of electric vehicles as a mobile power bank and enables vehicle to building power trading in a blockchain energy community. Released in ACM Digital Library.

Leadership Roles

Lead (Community Organizer)— *Developer Student Club at Amrita Vishwa Vidyapeetham, Amritapuri Campus.*

Google collaborates with university students who are passionate about growing developer communities and supports them with starting student clubs on their campuses.

Mentor / Member (Android Team) — *Free and Open Source Software (FOSS) club at Amrita University.*

amFOSS is India's Leading FOSS & Computer Science Club.. We encourage, support and mentor students to improve their technical and social skills.

Education

Amrita School of Engineering, Amritapuri — *B.Tech in CSE*

JULY 2016 - JUNE 2020

Shaped my knowledge in Computer Science. Secured 7.21 CGPA.

Sree Narayana Vidya Mandir Sn. Sr. School, Talap — *12th CBSE*

- APRIL 2016

Developed my Character and attitude, studied Biology Science stream and secured aggregate of 83% in Higher Secondary exam conducted by the Central Board of Secondary Education, India.

Writings

Understanding a TensorFlow program in simple steps. — *In Towards Data Science*

TensorFlow : No idea where to begin? — *In Towards Data Science*

Setting up Hadoop -MapReduce, HDFS and YARN. Standalone and pseudo-distributed mode. — *Medium*

Reference

1. Gopi Santhanam,
Head Of Strategy, Jupiter Meta
2. K Chakradhar Reddy,
Chief Architech, Founder of Rubix L1 Blockchain Protocol
Contact: kc@rubix.net
3. Dr. Maneesha V. Ramesh
Dean, International Programs
Director, Amrita Center for Wireless Networks and Applications (AmritaWNA), Amritapuri
Contact: maneesha@amrita.edu